

RAW SEQUENCE LISTING

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Application Serial Number: 101671995A
Source: IFWO
Date Processed by STIC: 1-27-05

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IFWO

RAW SEQUENCE LISTING

DATE: 01/27/2005

PATENT APPLICATION: US/10/671,995A

TIME: 14:52:47

Input Set : A:\BHPat.txt

Output Set: N:\CRF4\01272005\J671995A.raw

3 <110> APPLICANT: BioHesion, Inc
 4 Woodbury, Richard G
 5 deVos, Theo
 6 Irani, Meher
 8 <120> TITLE OF INVENTION: Recombinant Fusion Proteins with High Affinity Binding to
 Gold
 9 and Applications Thereof
 11 <130> FILE REFERENCE: Fusionpatent.doc
 13 <140> CURRENT APPLICATION NUMBER: US 10/671,995A
 14 <141> CURRENT FILING DATE: 2003-09-26
 16 <160> NUMBER OF SEQ ID NOS: 8
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 5454
 20 <212> TYPE: DNA
 21 <213> ORGANISM: Escherichia coli
 24 <220> FEATURE:
 25 <223> OTHER INFORMATION: Expression plasmid pPA-GBP, for His6-protein A-GBP. Vector is
 26 pQE-80L (Qiagen). CDS for Protein A (nucleotides 160-528) is from
 27 pEZZ18 (Amersham). CDS for GBP (nucleotides 565-858) is from
 28 pSB3053 from (Brown, Nat. Biotechnol. 15:269-272, 1997).
 31 <220> FEATURE:
 32 <221> NAME/KEY: CDS
 33 <222> LOCATION: (115)..(885)
 34 <223> OTHER INFORMATION: CDS for fusion protein His6-protein A-GBP consisting of 257
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 35 acid residues.
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 41 Met
 42 1
 44 aga gga tgc cat cac cat cac cat cac gga tcc ggt tct ggt gcg caa 165
 45 Arg Gly Ser His His His His His His Gly Ser Gly Ser Gly Ala Gln
 46 5 10 15
 48 cac gat gaa gcc gta gac aac aaa ttc aac aaa gaa caa caa aac gcg 213
 49 His Asp Glu Ala Val Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala
 50 20 25 30
 52 ttc tat gag atc tta cat tta cct aac tta aac gaa gaa caa cga aac 261
 53 Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn
 54 35 40 45
 56 gcc ttc atc caa agt tta aaa gat gac cca agc caa agc gct aac ctt 309
 57 Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu
 58 50 55 60 65
 60 tta gca gaa gct aaa aag cta aat gat gct cag gcg ccg aaa gta gac 357

61 Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Val Asp

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66		85	90	95			
68	tta cct aac	tta aac gaa gaa caa cga aac gcc ttc atc caa agt tta	453				
69	Leu Pro Asn	Leu Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu					
70		100	105	110			
72	aaa gat gac	cca agc caa agc gct aac ctt tta gca gaa gct aaa aag	501				
73	Lys Asp Asp	Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys					
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82		150	155	160			
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86		165	170	175			
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89	Ser Met His	Gly Lys Thr Gln Ala Thr Ser Gly Thr Ile Gln Ser Met					
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94		195	200	205			
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271 <223> OTHER INFORMATION: Expression plasmid pStreptavidin-GBP for His6-streptavidin-
GBP.
272 pQE-80L vector(Qiagen). CDS core streptavidin(169-531), (Chilkoti
273 et al., Proc Natl Acad Sci USA 92:1754-1758, 1995). CDS GBP
274 (559-852), pSB3053, (Brown, Nat. Biotechnol. 15:269-272, 1997).
277 <220> FEATURE:
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279 <222> LOCATION: (115)..(879)
280 <223> OTHER INFORMATION: CDS for fusion protein His6-streptavidin-GBP consisting of
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281 amino acid residues.
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332		165	170	175				
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343	Gln Ala Thr	Ser Gly Thr Ile Gln Ser Met His Gly Lys Thr Gln Ala						
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